



1

SEQUENCE LISTING

RECEIVED

SEP 03 2003

TECH CENTER 1600/2900

Van Eyk, Jennifer E.
Iscoe, Steven D
Simpson, Jeremy A

<120> Methods of Diagnosing Muscle Damage

<130> 1997-023-02US

<140> 09/115,589

<141> 1998-07-15

<150> 60/052,697

<151> 1997-07-16

<160> 19

<170> PatentIn Ver. 2.1

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<213> Unknown

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<222> (1)..(12)

<223> Myosin light chain 1

<220>

<221> PEPTIDE

<222> (1)

<223> May be any amino acid.

<220>

<221> PEPTIDE

<222> (2)

<223> May be any amino acid.

<220>

<221> PEPTIDE

<222> (7)

<223> May be either Pro or Ala.

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Xaa Xaa Lys Lys Pro Glu Xaa Lys Ala Asp Asp Ala

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<220>

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 <223> May be any amino acid.

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 <213> Unknown

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 <223> malate dehydrogenase

<220>
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 <223> May be any amino acid.

<220>
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 <222> (8)
 <223> May be any amino acid.

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 <213> Unknown

<220>
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<220>
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 <223> May be any amino acid.

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 <223> May be any amino acid.

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<210> 5
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 <213> Unknown

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<220>
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 <223> May be any amino acid.

<220>
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 <222> (2)
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<400> 5
 Xaa Xaa Lys Leu Val Arg Pro Pro Val Gln
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 <223> serum albumin

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 <223> May be any amino acid.

<400> 6
 Xaa Ala His Lys Ser Glu Ile Ala His Arg
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<220>
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 <223> May be any amino acid.

<220>
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 <222> (4)

<223> May be Arg or Leu.

<400> 7

Xaa Pro Ser Xaa Lys Phe Phe Val Gly Gly Asn
1 5 10

<210> 8

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<223> Human cardiac troponin I

<220>

<223> Swiss prot identification number P19429

<300>

<303> FEBS Lett.

<304> 270

<305> 1-2

<306> 57-61

<307> 1990-09-17

<400> 8

Ala Asp Gly Ser Ser Asp Ala Ala Arg Glu Pro Arg Pro Ala Pro Ala
1 5 10 15

Pro Ile Arg Arg Arg Ser Ser Asn Tyr Arg Ala Tyr Ala Thr Glu Pro
20 25 30

His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln Leu
35 40 45

Lys Thr Leu Leu Leu Gln Ile Ala Lys Gln Glu Leu Glu Arg Glu Ala
50 55 60

Glu Glu Arg Arg Gly Glu Lys Gly Arg Ala Leu Ser Thr Arg Cys Gln
65 70 75 80

Pro Leu Glu Leu Ala Gly Leu Gly Phe Ala Glu Leu Gln Asp Leu Cys
85 90 95

Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr Asp
100 105 110

Ile Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu Thr
115 120 125

Gln Lys Ile Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu Arg
130 135 140

Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly Ala
145 150 155 160

Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val Lys
165 170 175

Lys Glu Asp Thr Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg Lys
 180 185 190

Asn Ile Asp Ala Leu Ser Gly Met Glu Gly Arg Lys Lys Lys Phe Glu
 195 200 205

Ser

<210> 9
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<220>
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 <305> 3
 <306> 346-357
 <307> Jul-1990

<400> 9
 Pro Glu Val Glu Arg Lys Pro Lys Ile Thr Ala Ser Arg Lys Leu Leu
 1 5 10 15

Leu Lys Ser Leu Met Leu Ala Lys Ala Lys Glu Cys Trp Glu Gln Glu
 20 25 30

His Glu Glu Arg Glu Ala Glu Lys Val Arg Tyr Leu Ala Glu Arg Ile
 35 40 45

Pro Thr Leu Gln Thr Arg Gly Leu Ser Leu Ser Ala Leu Gln Asp Leu
 50 55 60

Cys Arg Glu Leu His Ala Lys Val Glu Val Val Asp Glu Glu Arg Tyr
 65 70 75 80

Asp Ile Glu Ala Lys Cys Leu His Asn Thr Arg Glu Ile Lys Asp Leu
 85 90 95

Lys Leu Lys Val Met Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu
 100 105 110

Arg Arg Val Arg Val Ser Ala Asp Ala Met Leu Arg Ala Leu Leu Gly
 115 120 125

Ser Lys His Lys Val Ser Met Asp Leu Arg Ala Asn Leu Lys Ser Val
 130 135 140

Lys Lys Glu Asp Thr Glu Lys Glu Arg Pro Val Glu Val Gly Asp Trp
 145 150 155 160

Arg Lys Asn Val Glu Ala Met Ser Gly Met Glu Gly Arg Lys Lys Met
 165 170 175

Phe Asp Ala Ala Lys Ser Pro Thr Ser Gln
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<210> 10
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 <223> Human fast skeletal troponin I

<220>
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<300>
 <303> Biochim. Biophys. Acta
 <304> 1217
 <306> 338-340
 <307> 1994-04-06

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 Gly Asp Glu Glu Lys Arg Asn Arg Ala Ile Thr Ala Arg Arg Gln His
 1 5 10 15

Leu Lys Ser Val Met Leu Gln Ile Ala Ala Thr Glu Leu Glu Lys Glu
 20 25 30

Glu Ser Arg Arg Glu Ala Glu Lys Gln Asn Tyr Leu Ala Glu His Cys
 35 40 45

Pro Pro Leu His Ile Pro Gly Ser Met Ser Glu Val Gln Glu Leu Cys
 50 55 60

Lys Gln Leu His Ala Lys Ile Asp Ala Ala Glu Glu Lys Tyr Asp
 65 70 75 80

Met Glu Val Arg Val Gln Lys Thr Ser Lys Glu Leu Glu Asp Met Asn
 85 90 95

Gln Lys Leu Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu Arg
 100 105 110

Arg Val Arg Met Ser Ala Asp Ala Met Leu Lys Ala Leu Leu Gly Ser
 115 120 125

Lys His Lys Val Cys Met Asp Leu Arg Ala Asn Leu Lys Gln Val Lys
 130 135 140

Lys Glu Asp Thr Glu Lys Glu Arg Asp Leu Arg Asp Val Gly Asp Trp
 145 150 155 160

Arg Lys Asn Ile Glu Glu Lys Ser Gly Met Glu Gly Arg Lys Lys Met
 165 170 175

Phe Glu Ser Glu Ser

180

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 <223> Rat cardiac troponin I

<220>
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<300>
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 <304> 30
 <305> 3
 <306> 707-712
 <307> 1991-01-22

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 Ala Asp Glu Ser Ser Asp Ala Ala Gly Glu Pro Gln Pro Ala Pro Ala
 1 5 10 15
 Pro Val Arg Arg Arg Ser Ser Ala Asn Tyr Arg Ala Tyr Ala Thr Glu
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 Pro His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln
 35 40 45
 Leu Lys Thr Leu Met Leu Gln Ile Ala Lys Gln Glu Met Glu Arg Glu
 50 55 60
 Ala Glu Glu Arg Arg Gly Glu Lys Gly Arg Val Leu Ser Thr Arg Cys
 65 70 75 80
 Gln Pro Leu Val Leu Asp Gly Leu Gly Phe Glu Glu Leu Gln Asp Leu
 85 90 95
 Cys Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr
 100 105 110
 Asp Val Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu
 115 120 125
 Thr Gln Lys Ile Tyr Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu
 130 135 140
 Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly
 145 150 155 160
 Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val
 165 170 175
 Lys Lys Glu Asp Ile Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg
 180 185 190
 Lys Asn Ile Asp Ala Leu Ser Gly Met Glu Gly Arg Lys Lys Lys Phe

195

200

205

Glu Gly
210

<210> 12
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<222> (1)..(186)
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<220>
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<300>
<303> J. Biol. Chem.
<304> 264
<305> 24
<306> 14327-14333
<307> 1989-08-25

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Pro Glu Val Glu Arg Lys Ser Lys Ile Thr Ala Ser Arg Lys Leu Met
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Leu Lys Ser Leu Met Leu Ala Lys Ala Lys Glu Cys Trp Glu Gln Glu
20 25 30
His Glu Glu Arg Glu Ala Glu Lys Val Arg Tyr Leu Ser Glu Arg Ile
35 40 45
Pro Thr Leu Gln Thr Arg Gly Leu Ser Leu Ser Ala Leu Gln Asp Leu
50 55 60
Cys Arg Glu Leu His Ala Lys Val Glu Val Val Asp Glu Glu Arg Tyr
65 70 75 80
Asp Ile Glu Ala Lys Cys Leu His Asn Thr Arg Glu Ile Lys Asp Leu
85 90 95
Lys Leu Lys Val Leu Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu
100 105 110
Arg Arg Val Arg Val Ser Ala Asp Ala Met Leu Arg Ala Leu Leu Gly
115 120 125
Ser Lys His Lys Val Ser Met Asp Leu Arg Ala Asn Leu Lys Ser Val
130 135 140
Lys Lys Glu Asp Thr Glu Lys Glu Arg Pro Val Glu Val Gly Asp Trp
145 150 155 160
Arg Lys Asn Val Glu Ala Met Ser Gly Met Glu Gly Arg Lys Lys Met
165 170 175
Phe Asp Ala Ala Lys Ser Pro Thr Leu Gln

180

185

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 Glu Ser Arg Arg Glu Ser Glu Lys Gln Asn Tyr Leu Ser Glu His Cys
 35 40 45
 Pro Pro Leu His Ile Pro Gly Ser Met Ser Glu Val Gln Glu Leu Cys
 50 55 60
 Lys Gln Leu His Ala Lys Ile Asp Ala Ala Glu Glu Lys Tyr Asp
 65 70 75 80
 Met Glu Val Lys Val Gln Lys Ser Ser Lys Glu Leu Glu Asp Met Asn
 85 90 95
 Gln Lys Leu Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu Arg
 100 105 110
 Arg Val Arg Met Ser Ala Asp Ala Met Leu Lys Ala Leu Leu Gly Ser
 115 120 125
 Lys His Lys Val Cys Met Asp Leu Arg Ala Asn Leu Lys Gln Val Lys
 130 135 140
 Lys Glu Asp Thr Glu Lys Glu Arg Asp Leu Arg Asp Val Gly Asp Trp
 145 150 155 160
 Arg Lys Asn Ile Glu Glu Lys Ser Gly Met Glu Gly Arg Lys Lys Met
 165 170 175
 Phe Glu Ser Glu Ser
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<210> 14
 <211> 287
 <212> PRT

<213> Unknown

<220>

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<222> (1)..(287)

<223> Human cardiac troponin T

<220>

<223> Swiss prot identification number P45379

<300>

<303> FEBS Lett.

<304> 328

<305> 1-2

<306> 139-144

<307> 1993-08-09

<400> 14

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Ala Glu Ala Glu Thr Glu Glu Thr Arg Ala Glu Glu Asp Glu Glu Glu
      35              40              45

Glu Glu Ala Lys Glu Ala Glu Asp Gly Pro Met Glu Glu Ser Lys Pro
      50              55              60

Lys Pro Arg Ser Phe Met Pro Asn Leu Val Pro Pro Lys Ile Pro Asp
      65              70              75              80

Gly Glu Arg Val Asp Phe Asp Asp Ile His Arg Lys Arg Met Glu Lys
      85              90              95

Asp Leu Asn Glu Leu Gln Ala Leu Ile Glu Ala His Phe Glu Asn Arg
      100             105             110

Lys Lys Glu Glu Glu Glu Leu Val Ser Leu Lys Asp Arg Ile Glu Arg
      115             120             125

Arg Arg Ala Glu Arg Ala Glu Gln Gln Arg Ile Arg Asn Glu Arg Glu
      130             135             140

Lys Glu Arg Gln Asn Arg Leu Ala Glu Glu Arg Ala Arg Arg Glu Glu
      145             150             155             160

Glu Glu Asn Arg Arg Lys Ala Glu Asp Glu Ala Arg Lys Lys Lys Ala
      165             170             175

Leu Ser Asn Met Met His Phe Gly Gly Tyr Ile Gln Lys Gln Ala Gln
      180             185             190

Thr Glu Arg Lys Ser Gly Lys Arg Gln Thr Glu Arg Glu Lys Lys Lys
      195             200             205

Lys Ile Leu Ala Glu Arg Arg Lys Val Leu Ala Ile Asp His Leu Asn
      210             215             220

Glu Asp Gln Leu Arg Glu Lys Ala Lys Glu Leu Trp Gln Ser Ile Tyr

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<220>
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<222> (1)..(277)
<223> Human slow skeletal troponin T
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<300>
<303> J. Biol. Chem.
<304> 262
<305> 33
<306> 16122-16126
<307> 1987-11-25

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			20					25					30			
Glu	Pro	Glu	Glu	Glu	Arg	Pro	Lys	Pro	Ser	Arg	Pro	Val	Val	Pro	Pro	
		35					40					45				
Leu	Ile	Pro	Pro	Lys	Ile	Pro	Glu	Gly	Glu	Arg	Val	Asp	Phe	Asp	Asp	
	50					55					60					
Ile	His	Arg	Lys	Arg	Met	Glu	Lys	Asp	Leu	Leu	Glu	Leu	Gln	Thr	Leu	
65					70					75					80	
Ile	Asp	Val	His	Phe	Glu	Gln	Arg	Lys	Lys	Glu	Glu	Glu	Glu	Leu	Val	
				85					90					95		
Ala	Leu	Lys	Glu	Arg	Ile	Glu	Arg	Arg	Arg	Ser	Glu	Arg	Ala	Glu	Gln	
			100					105					110			
Gln	Arg	Phe	Arg	Thr	Glu	Lys	Glu	Arg	Glu	Arg	Gln	Ala	Lys	Leu	Ala	
		115					120					125				
Glu	Glu	Lys	Met	Arg	Lys	Glu	Glu	Glu	Glu	Ala	Lys	Lys	Arg	Ala	Glu	
	130					135					140					
Asp	Asp	Ala	Lys	Lys	Lys	Lys	Val	Leu	Ser	Asn	Met	Gly	Ala	His	Phe	

145 150 155 160
 Gly Gly Tyr Leu Val Lys Ala Glu Gln Lys Arg Gly Lys Arg Gln Thr
 165 170 175
 Gly Arg Glu Met Lys Val Arg Ile Leu Ser Glu Arg Lys Lys Pro Leu
 180 185 190
 Asp Ile Asp Tyr Met Gly Glu Glu Gln Leu Arg Ala Arg Ser Ala Trp
 195 200 205
 Leu Pro Pro Ser Gln Pro Ser Cys Pro Ala Arg Glu Lys Ala Gln Glu
 210 215 220
 Leu Ser Asp Trp Ile His Gln Leu Glu Ser Glu Lys Phe Asp Leu Met
 225 230 235 240
 Ala Lys Leu Lys Gln Gln Lys Tyr Glu Ile Asn Val Leu Tyr Asn Arg
 245 250 255
 Ile Ser His Ala Gln Lys Phe Arg Lys Gly Ala Gly Lys Gly Arg Val
 260 265 270
 Gly Gly Arg Trp Lys
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<210> 16
 <211> 257
 <212> PRT
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<220>
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<220>
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<300>
 <303> DNA Cell Biol.
 <304> 13
 <305> 3
 <306> 217-233
 <307> MAR-1994

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 Glu Ala Gln Glu Glu Glu Val Gln Glu Asp Thr Ala Glu Glu Asp
 20 25 30
 Ala Glu Glu Glu Lys Pro Arg Pro Lys Leu Thr Ala Pro Lys Ile Pro
 35 40 45
 Glu Gly Glu Lys Val Asp Phe Asp Asp Ile Gln Lys Lys Arg Gln Asn
 50 55 60
 Lys Asp Leu Met Glu Leu Gln Ala Leu Ile Asp Ser His Phe Glu Ala

65				70				75				80			
Arg	Lys	Lys	Glu	Glu	Glu	Glu	Leu	Val	Ala	Leu	Lys	Glu	Arg	Ile	Glu
				85				90				95			
Lys	Arg	Arg	Ala	Glu	Arg	Ala	Glu	Gln	Gln	Arg	Ile	Arg	Ala	Glu	Lys
				100				105				110			
Glu	Arg	Glu	Arg	Gln	Asn	Arg	Leu	Ala	Glu	Glu	Lys	Ala	Arg	Arg	Glu
				115				120				125			
Glu	Glu	Asp	Ala	Lys	Arg	Arg	Ala	Glu	Asp	Asp	Leu	Lys	Lys	Lys	Lys
				130				135				140			
Ala	Leu	Ser	Ser	Met	Gly	Ala	Asn	Tyr	Ser	Ser	Tyr	Leu	Ala	Lys	Ala
				145				150				155			
Asp	Gln	Lys	Arg	Gly	Lys	Lys	Gln	Thr	Ala	Arg	Glu	Met	Lys	Lys	Lys
				165				170				175			
Ile	Leu	Ala	Glu	Arg	Arg	Lys	Pro	Leu	Asn	Ile	Asp	His	Leu	Gly	Glu
				180				185				190			
Asp	Lys	Leu	Arg	Asp	Lys	Ala	Lys	Glu	Leu	Trp	Glu	Thr	Leu	His	Gln
				195				200				205			
Leu	Glu	Ile	Asp	Lys	Phe	Glu	Phe	Gly	Glu	Lys	Leu	Lys	Arg	Gln	Lys
				210				215				220			
Tyr	Asp	Ile	Thr	Thr	Leu	Arg	Ser	Arg	Ile	Asp	Gln	Ala	Gln	Lys	His
				225				230				235			
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<210> 17
<211> 298
<212> PRT
<213> Unknown
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<223> Rat cardiac troponin T
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<220>
<223> Swiss prot identification number P50753
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<300>
<303> J. Biol. Chem.
<304> 264
<305> 24
<306> 14471-14477
<307> 1989-08-25

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Ser Asp Ala Glu Glu Glu Val Val Glu Tyr Glu Glu Glu Gln Glu Glu

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Glu Glu Asp Gly	Glu Ala Glu Pro	Asp Pro Glu Gly	Glu Ala Glu Ala
	35	40	45
Glu Glu Asp Lys	Ala Glu Glu Val	Gly Pro Asp Glu	Glu Ala Arg Asp
	50	55	60
Ala Glu Asp Gly	Pro Val Glu Asp	Ser Lys Pro Lys	Pro Ser Arg Leu
	65	70	75
Phe Met Pro Asn	Leu Val Pro Pro	Lys Ile Pro Asp	Gly Glu Arg Val
	85	90	95
Asp Phe Asp Asp	Ile His Arg Lys	Arg Met Glu Lys	Asp Leu Asn Glu
	100	105	110
Leu Gln Thr Leu	Ile Glu Ala His	Phe Glu Asn Arg	Lys Lys Glu Glu
	115	120	125
Glu Glu Leu Ile	Ser Leu Lys Asp	Arg Ile Glu Lys	Arg Arg Ala Glu
	130	135	140
Arg Ala Glu Gln	Gln Arg Ile Arg	Asn Glu Arg Glu	Lys Glu Arg Gln
	145	150	155
Asn Arg Leu Ala	Glu Glu Arg Ala	Arg Arg Glu Glu	Glu Glu Asn Arg
	165	170	175
Arg Lys Ala Glu	Asp Glu Ala Arg	Lys Lys Lys Ala	Leu Ser Asn Met
	180	185	190
Met His Phe Gly	Gly Tyr Ile Gln	Lys Ala Gln Thr	Glu Arg Lys Ser
	195	200	205
Gly Lys Arg Gln	Thr Glu Arg Glu	Lys Lys Lys Lys	Lys Ile Leu Ala Glu
	210	215	220
Arg Arg Lys Val	Leu Ala Ile Asp	His Leu Asn Glu	Asp Gln Leu Arg
	225	230	235
Glu Lys Ala Lys	Glu Leu Trp Gln	Ser Ile His Asn	Leu Glu Ala Glu
	245	250	255
Lys Phe Asp Leu	Gln Glu Lys Phe	Lys Gln Gln Lys	Tyr Glu Ile Asn
	260	265	270
Val Leu Arg Asn	Arg Ile Asn Asp	Asn Gln Lys Val	Ser Lys Thr Arg
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Gly Lys Ala Lys	Val Thr Gly Arg	Trp Lys	
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<210> 18

<211> 258

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<222> (1)..(258)

<223> Rat fast skeletal troponin T

<220>

<223> Swiss prot identification number P09739

<300>

<303> J. Mol. Biol.

<304> 188

<305> 3

<306> 313-324

<307> 1986-04-05

<400> 18

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Glu Ala Gln Glu Glu Glu Val Gln Glu Glu Ala Pro Glu Pro Glu Glu
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Val Gln Glu Glu Glu Lys Pro Arg Pro Lys Leu Thr Ala Pro Lys Ile
 35 40 45

Pro Glu Gly Glu Lys Val Asp Phe Asp Asp Ile Gln Lys Lys Arg Gln
 50 55 60

Asn Lys Asp Leu Met Glu Leu Gln Ala Leu Ile Asp Ser His Phe Glu
 65 70 75 80

Ala Arg Lys Lys Glu Glu Glu Glu Leu Ile Ala Leu Lys Glu Arg Ile
 85 90 95

Glu Lys Arg Arg Ala Glu Arg Ala Glu Gln Gln Arg Ile Arg Ala Glu
 100 105 110

Lys Glu Arg Glu Arg Gln Asn Arg Leu Ala Glu Glu Lys Ala Arg Arg
 115 120 125

Glu Glu Glu Asp Ala Lys Arg Arg Ala Glu Asp Asp Leu Lys Lys Lys
 130 135 140

Lys Ala Leu Ser Ser Met Gly Ala Asn Tyr Ser Ser Tyr Leu Ala Lys
 145 150 155 160

Ala Asp Gln Lys Arg Gly Lys Lys Gln Thr Ala Arg Glu Met Lys Lys
 165 170 175

Lys Ile Leu Ala Glu Arg Arg Lys Pro Leu Asn Ile Asp His Leu Ser
 180 185 190

Asp Asp Lys Leu Arg Asp Lys Ala Lys Glu Leu Trp Asp Thr Leu Tyr
 195 200 205

Gln Leu Glu Thr Asp Lys Phe Glu Phe Gly Glu Lys Leu Lys Arg Gln
 210 215 220

Lys Tyr Asp Ile Thr Thr Leu Arg Ser Arg Ile Asp Gln Ala Gln Lys
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His Ser Lys Lys Ala Gly Ala Thr Ala Lys Gly Lys Val Gly Gly Arg
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Trp Lys

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<220>

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<300>

<303> Nucleic Acids Res.

<304> 18

<305> 6

<306> 1581-1586

<307> 1990-03-25

<400> 19

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Ala Phe Asp Pro Lys Ser Val Lys Ile Asp Phe Ser Ala Asp Gln Ile
 35 40 45

Glu Glu Phe Lys Glu Ala Phe Ser Leu Phe Asp Arg Thr Pro Thr Gly
 50 55 60

Glu Met Lys Ile Thr Tyr Gly Gln Cys Gly Asp Val Leu Arg Ala Leu
 65 70 75 80

Gly Gln Asn Pro Thr Asn Ala Glu Val Leu Arg Val Leu Gly Lys Pro
 85 90 95

Lys Pro Glu Glu Met Asn Ser Lys Thr Leu Asp Phe Glu Met Phe Leu
 100 105 110

Pro Ile Leu Gln His Ile Ser Arg Asn Lys Glu Gln Gly Thr Tyr Glu
 115 120 125

Asp Phe Val Glu Gly Leu Arg Val Phe Asp Lys Glu Ser Asn Gly Thr
 130 135 140

Val Met Gly Ala Glu Leu Arg His Val Leu Ala Thr Leu Gly Glu Lys
 145 150 155 160

Met Ser Glu Ala Glu Val Glu Gln Leu Leu Thr Gly Gln Glu Asp Ala
 165 170 175

17

Asn	Gly	Cys	Ile	Asn	Tyr	Glu	Ala	Phe	Val	Lys	His	Val	Met	Ser	Gly
			180						185					190	